

# E1828-96 Standard Guide for Evaluating the Performance Characteristics of Qualitative Chemical Spot Test Kits for Lead in Paint

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## 1. Scope

1.1 This guide describes an evaluation procedure for the determination of performance characteristics of qualitative chemical spot test kits for lead, as applied to dry paint films, for a given dry paint film matrix on a given substrate.

1.2 This guide may be used to determine the performance characteristics of a given lead spot test kit for a given synthetic or real-world dry paint film matrix, independent of substrate effects.

1.3 to allow for comparisons of different spot test kits on an identical matrix, this guide covers the determination of test kit performance characteristics on a synthetically prepared standard white lead-containing paint film. The ingredients for the preparation of a standard synthetic leaded paint film based on basic lead carbonate are described.

1.4 this guide is not intended for the evaluation of performance parameters of chemical spot test kits on all types of paint or paint conditions that may be encountered during field use (as described in PS18). Rather, this guide addresses the evaluation of the response of a chemical spot test kit for lead as a function of lead concentration for a limited set of paint films. Evaluating the performance of a chemical spot test kit for a given application requires tests on a representative sample of paints and substrates found at the location(s) to be tested.

1.5 This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.

**Adopted by:**

**Developed by ASTM Subcommittee:** [E06.23](#)

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